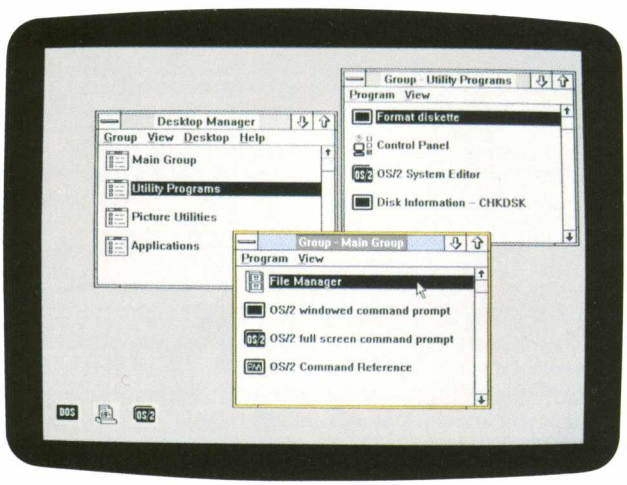
Right for today, ready for tomorrow

IBM Operating System/2 Standard Edition Version 1.2



Desktop Manager lets you organize your applications and data according to your needs—all within a powerful, consistent environment.

The next generation in operating systems is here today

An easy-to-use graphical interface, support for multiple concurrent applications, large memory addressability, and a lot more are yours with IBM Operating System/2™—IBM's strategic operating system for Personal System/2.®

IBM Operating System/2 Standard Edition 1.2 helps you make the most of the capabilities of the 80286 or 80386 processors in your IBM personal systems. It not only brings you the benefits of large memory and multitasking support, it also offers windowing, enhanced online help and graphics capabilities for improved ease of use.

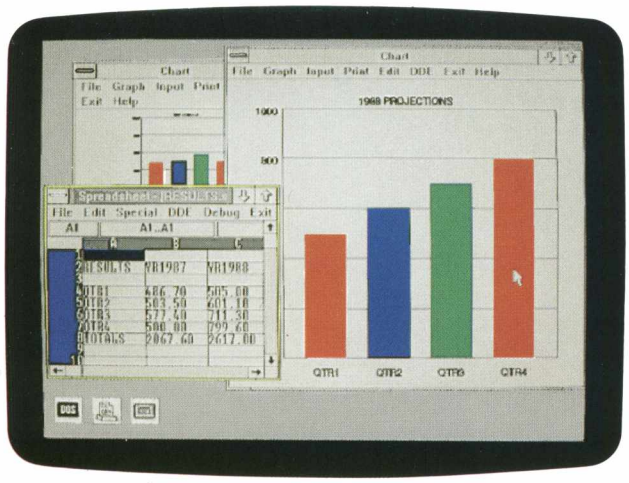
Make the move to software and hardware consistency. Operating System/2 Standard Edition 1.2 implements elements of IBM's Systems Application Architecture™ (SAA) and SAA's Common User Access (CUA) feature. Designed to bring together IBM System/370,™ AS/400™ and Personal System/2 environments, SAA provides consistent interfaces for communications, programming—even for end users. And the CUA feature furnishes common guidelines for developing easy-to-use OS/2® Presentation Manager™ applications.

What this means is that OS/2 offers common function keys, help options, terminology, menus and screen appearance. So you have less to learn when moving from one type of program to another.

Have up to 16Mb of real memory available on demand. Because OS/2 supports such a large amount of memory, you can run larger, more complex programs and work with larger data files than ever. You can also handle several applications concurrently. And you can keep your most frequently used applications in memory at the same time. So, if you're in the middle of creating a pie chart with a graphing program, for example, and need to quickly check a figure in the chart, you can call up a file from a report-writing application. While you interact with one application, others may continue to execute concurrently. And, whenever you like, you can easily switch to another application and continue working.

View many windows at one time. When you're working with several programs, you don't have to stop and save one before retrieving another. Just create as many OS/2 windows as you need, in any size, and view them concurrently—even transfer data among them. It's all possible thanks to the high-function Presentation Manager built into OS/2 Standard Edition 1.2.

Besides allowing applications to run in a windowing environment, the Presentation Manager provides wide-ranging programming interfaces, ease-of-use facilities, a set of powerful graphics



OS/2 Presentation Manager allows you to display multiple applications concurrently—and move data among them.

functions, and support for all-points-addressable displays, printers, pointing devices and plotters. So whether you're calling for a file or creating a complex application, the Presentation Manager simplifies your work by supporting and simplifying the way you interact with your system.

Keep working with DOS software. With OS/2 Standard Edition 1.2, you can continue to run many of the PC programs you currently use because Standard Edition has a built-in DOS application environment. You can, for example, keep using accounting or word processing programs that do not take advantage of OS/2 functions.

Develop powerful applications for your specific needs. OS/2 incorporates a set of consistent programming interfaces to help increase productivity and simplify the process of writing new applications. Since the programming interfaces contain hundreds of functions, development time is sharply reduced—and migration from existing DOS applications is easy.

Programming interfaces provided with OS/2 Standard Edition 1.2 include:

- Presentation interface for fonts and graphic data and windowing control
- Video output interface for simple text display
- Interprocess communication interface for intertask synchronization and communication
- Memory and task management interfaces for high-function, multitasking applications
- User control interface for Presentation Manager graphics
- High-level dialog interface

With Presentation Manager's generic device support, you won't have to adjust your applications for different printers, plotters or displays—it's all done automatically. So you can install new devices quickly and easily.

Highlights

The following are several important features offered by IBM Operating System/2 Standard Edition 1.2.

Programming enhancements provided in the Operating System/2 Tools and Information Version 1.2 assist developers in creating applications with interactive, menu-based features like pull-downs, action bars, scroll bars and pop-up windows.

High-Performance File System speeds access to fixed disk partitions as large as 2 gigabytes—and handles files of that size as well.

Enhanced System Editor uses the Presentation Manager interface to provide window-based editing capabilities.

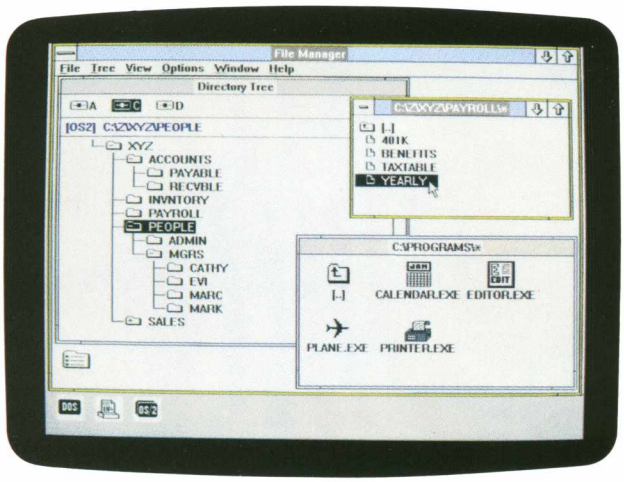
Consistent integrated presentation programming interface provides a high degree of device support—and device independence—along with windowing functions, graphics and fonts. The interface also provides PostScript® support for publishing applications.

Reliability, Availability and Serviceability (RAS) capabilities provide detailed information for fast recovery from system errors.

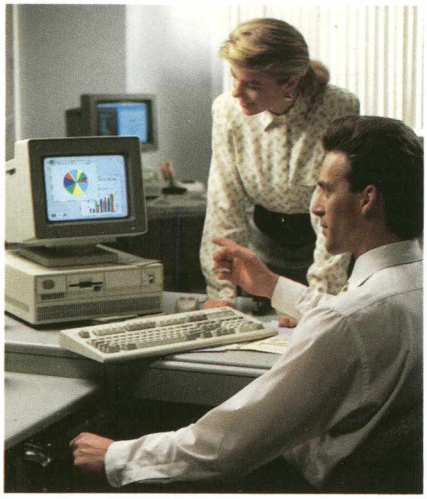
Ease-of-use functions for end users and programmers are integrated into the system. End users benefit from such functions as a mouse-driven graphical interface for starting and monitoring applications, accessing and managing files, and cutting and pasting files. Application programmers can use tools and facilities provided in the Operating System/2 Programming Tools and Information Version 1.2 to make their applications more device-independent and to ease the task of building applications.

Consistent application management allows users to run multiple applications concurrently and view them all on the screen.

80286/80386 architecture support helps you create and run sophisticated applications that take advantage of IBM hardware built with 80286 and 80386 microprocessors. For example, it allows your applications to run concurrently without interfering with one another.



The icons and directory trees in OS/2's file systems make it easy to access and manipulate your files and data.



OS/2's user-friendly graphical interface can boost office productivity by reducing training time.

16Mb real memory addressability lets you develop and run very large applications that include bit-mapped graphics, online documentation, large data requirements, and high-level functions. Additional virtual memory is available on demand in the event that multiple operations exceed installed real memory.

Memory management and multitasking capabilities allow you to perform many operations simultaneously so you can use your time efficiently.

DOS application mode makes it possible to continue using many DOS-based programs you already own.

What you get

IBM Operating System/2 Standard Edition 1.2 comes on 3.5-inch or 5.25-inch diskettes with associated publications.

Programming languages

Whether you want to design a spreadsheet with sophisticated graphics, build a model, or create a data base, there's an IBM programming language suited to the task—and supported by OS/2. The range of languages you can work with includes:

- IBM C/2 Version 1.10—the full-function language with new enhancements for the OS/2 Presentation Manager environment
- IBM COBOL/2—for business applications with access to OS/2 functions and support for multiple memory models
- IBM FORTRAN/2 Version 1.02—for scientific and engineering applications in a multitasking environment
- IBM Macro Assembler/2—for improved application performance and concurrent operation of applications

IBM Operating System/2 Standard Edition 1.2 features

Feature	Function	Benefit
Dialog Manager	Provides a high-level interface to OS/2 Presentation Manager in the OS/2 Tools and Information Version 1.2	Helps programmers develop applications with easy-to-use, menu-based features
High-Performance File System	Efficient management of large disk media; supports files and disk partitions up to 2 gigabytes	Improved hard file performance; compatible with existing files
High-level programming interface	Provides application developers with a consistent interface across all versions of OS/2. The Presentation Manager programming interface implements elements of SAA and includes rich functions for windowing, graphics, fonts, clipboard and device-independent I/O support	Consistent platform for application development across versions of OS/2; foundation for applications on other IBM operating systems and hardware through Common User Access, capability for programmers to more easily extend programs by concentrating on specific functions
Enhanced ease-of-use facilities	Offer comprehensive help information, descriptive system messages, and menu access to facilities such as installation aid, print spooler, enhanced window-based system editor, and file system application	Quicker learning for computer novices; simplified operations for beginners and experienced users alike
Presentation Manager windowing	Provides ease of use through Common User Access, a consistent windowing interface; multiple concurrent applications through on-screen windows; comprehensive help information and system messages	Improved productivity, greater transfer of skills, quicker learning for novices, simplified operations for beginners and experienced users, easy switching between applications
Typographical text	Supports proportional spacing and fonts, multiple fonts, anti-aliased fonts, and font creation	Easy-to-read text; higher user productivity
File Manager	Graphical interface includes new iconic representations and provides file access with mouse or keyboard	Eliminates complex commands; speeds file access and manipulation
Graphic support	Allows applications to create and alter bit-mapped or vector graphics on-screen	Easily available graphics for all applications
Clipboard	Enables cut-and-paste between programs	Capability to move text and graphics among applications such as spreadsheets, word processors and data bases
16Mb addressable random access memory support	Enables developers/users to take full advantage of memory beyond 640Kb for applications and data	Capability to use functionally rich applications, such as spreadsheets and advanced word processing programs, that can process large amounts of data
Concurrent processing of multiple applications	Allows multitasking and fast, easy switching among OS/2 applications and/or DOS applications	Increased productivity and user convenience
DOS compatibility	Includes a DOS environment that allows many existing DOS applications to run unchanged; provides compatible file and command systems	Protection for investment in DOS applications; smooth transition from DOS to OS/2; interchangeable DOS and OS/2 files
Warranty and service	Provide three-month warranty coverage and a 12-month service plan; an interactive, electronic device support facility is available to registered OS/2 service coordinators without charge	Protection for investment in OS/2; increased reliability, availability and serviceability

- IBM Pascal Compiler/2—structured programming facilities and extensive data structures to help you create and execute Pascal programs in the OS/2 environment
- IBM BASIC Compiler/2—for writing, testing and running BASIC programs under OS/2

IBM C/2 1.10, COBOL/2, FORTRAN/2 1.02, and Macro Assembler/2 can be used right now to build easy-to-use graphics applications that run in the Presentation Manager environment.

Optional programming tools

The IBM Operating System/2 Programming Tools and Information Version 1.2 is available to help boost your productivity in developing applications for the OS/2 environment. Highlights of this programming toolkit include:

- Graphics and windowing tools such as a font editor, an icon editor, a dialog editor, and a resource compiler
- A programmer's guide
- Facilities for creating dynamic link libraries and family applications
- Programming aids for IBM Macro Assembler/2, C/2, COBOL/2 and FORTRAN/2
- Message preparation utilities
- Sample programs illustrating useful programming techniques
- A Dialog Manager, including programming aids and a Dialog Tag Language compiler

IBM Operating System/2 at a glance

	Standard Edition 1.2	Extended Edition 1.2
Addressable memory	16Mb	16Mb
Multitasking	Concurrent processing; fast, easy switching among applications	
Enhanced file support	Files and partitions up to 2 gigabytes	
Presentation Manager	Built-in windowing, graphics and clipboard functions; common user interface	
Database Manager		Relational data base with query management, report generation and additional functions
Communications Manager		Support for a variety of multiple, concurrent communications sessions
Ease-of-use facilities	Online tutorial, contextual help, on-screen messages	
Languages supported	IBM COBOL/2, FORTRAN/2, C/2, Macro Assembler/2, Pascal Compiler/2, BASIC Compiler/2	
Systems	IBM Personal System/2 Model 30 286 and above; Personal Computer AT® and Personal Computer XT™ 286 systems	
Warranty and service	Provide three-month warranty coverage and a 12-month service plan. An interactive, electronic service support facility is available to OS/2 registered service coordinators without charge.	

Warranty/Service

IBM Operating System/2 Standard Edition 1.2 is developed to meet IBM's high standards of quality and reliability.

OS/2 Standard Edition 1.2 is backed by a warranty and service plan. The three-month warranty starts when the product is acquired and covers both the media and the program. The no-charge service plan is available for up to 12 months after general availability.

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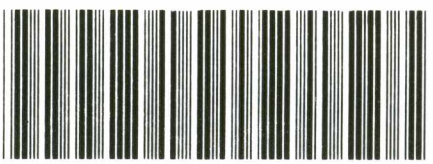

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